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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,292	01/10/2006	Kui Yong Lim	DE 030244	6997
65913 NXP, B.V.	7590 02/20/200	99	EXAMINER	
NXP INTELLECTUAL PROPERTY DEPARTMENT			BAISA, JOSELITO SASIS	
M/S41-SJ 1109 MCKAY DRIVE		ART UNIT	PAPER NUMBER	
SAN JOSE, CA 95131			2832	
			NOTIFICATION DATE	DELIVERY MODE
			02/20/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	10/564,292	LIM ET AL.
Office Action Summary	Examiner	Art Unit
	JOSELITO BAISA	2832
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>02</u> This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pre	
Disposition of Claims		
4) Claim(s) 1 and 4-10 is/are pending in the apprending of the above claim(s) is/are withdr 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 4-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examir 10) ☑ The drawing(s) filed on 10 January 2006 is/ar Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11) ☐ The oath or declaration is objected to by the Examiration is objected.	re: a)⊠ accepted or b)⊡ objected re drawing(s) be held in abeyance. Se rection is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document copies of the priority document all Copies of the certified copies of the priority document application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat iority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02 December 2008 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 4-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knutson et al. [4035695] in view of Shimizu [JP11177367].

Regarding claims 1, 8 and 9, Knutson discloses an inductive system comprising a first part in the form of a printed coil 52 (a loop); and a second part in the form of a non-printed coil 46 (see figure 2); the non-printed coil 46 comprises an air coil comprising a further number of turns defined by at least one wire diameter and at least one coil diameter; which coil represented by loop 52 and which non-printed coil 46 are coupled serially; the coil (26, 28, 30) is on an outer layer of a printed circuit board (40, 10) [Col. 2, Lines 45-48, Figure 1] and [Col. 3, Lines 28-38, Figure 2].

Knutson discloses the instant claimed invention discussed above except for the printed coil is spiral loop; and wherein the total inductance of the inductive-system is substantially equal

to an inductance of the printed coil plus an inductance of the air coil plus a mutual inductance which is based on a direction of said printed coil, a direction of said air coil and a length of said air coil.

However, Knutson discloses that the loop 52 (coil 52) with bridges 53, 54 is similar to the spiral coil of Figure 1 that has the first turn 26 and second turn 28 which includes loop 30 having plurality of bridges 32 [Col. 2, Lines 45-54, Figure 1].

It would have been obvious to one having ordinary skill in the art at the time of the invention to use the spiral coil as taught by Knutson in Figure 1 to the inductive loop shown in Figure 2.

The motivation would have been to expand variation in inductance value of the inductive system [Col. 2, Lines 61-67, Figures 1 and 2].

Shimizu discloses an inductive-system substantially equal to an inductance of coil 12 (printed coil) plus an inductance of the coil 13 (air coil) plus a mutual inductance which is based on a direction of coil 12, a direction of coil 13 and a length of coil 13 [Abstract] and [Paragraph 6].

It would have been obvious to one having ordinary skill in the art at the time of the invention to use the coil arrangement as taught by Shimizu to the coil of Knutson.

The motivation would have been to be able to produce a miniaturized coil arrangement that involve mutual inductance [Abstract].

With respect to claim 10, the claims are method counterpart of structure of claim 1 and method steps therefore are inherent for manufacturing an inductive system comprising a first part in the form of a printed coil and a second part in the form of a non-printed coil.

Regarding claim 4, Shimizu discloses the value of the mutual inductance increasing with the length of the coil 13 until a maximum overlapping area between the coil 12 and the coil 13 has been reached [Paragraph 6].

Regarding claim 5, Knutson discloses the number of turns (26, 28) are further defined by a diameter of a center path and a turning direction, with the further number of turns (26, 28) being further defined by a turning orientation [Col. 2, Lines 45-50, Figure 1].

Regarding claim 6, Knutson discloses one end of the non-printed coil 46 is coupled (in place of jumper 22) to a center end of the coil (26, 28, 30), with the other end of the non-printed coil 46 and an outer end of the coil (26, 28, 30) constituting ends of the inductive-system [Col. 3, Lines 28-38, Figures 1 and 2].

Regarding claim 7, Knutson discloses the coil (26, 28, 30) is on an outer layer of a printed circuit board (40, 10) [Col. 3, Lines 28-38, Figures 1 and 2].

Response to Argument

Applicant's arguments with respect to claims 1 and 4-10 have been considered but are moot in view of the new ground(s) of rejection.

Shimizu discloses an inductive-system substantially equal to an inductance of coil 12 (printed coil) plus an inductance of the coil 13 (air coil) plus a mutual inductance which is based on a direction of coil 12, a direction of coil 13 and a length of coil 13.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Joselito Baisa whose telephone number is (571) 272-7132. The

examiner can normally be reached on M-F 5:30 am to 2:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Elvin Enad can be reached on (571) 272-1990. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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Joselito Baisa Examiner

Art Unit 2832

/J. B./

Examiner, Art Unit 2832

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Supervisory Patent Examiner, Art Unit 2816